Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) An adaptation method comprising

adapting a <u>variable</u> transmission ~~parameter~~ <u>data rate</u> in a transmitting node of a data communication system to a current link quality of a data communication channel <u>wherein</u> the ~~transmission parameter~~ <u>data rate</u> ~~being~~ <u>is</u> selected by the transmitting node from a set of transmission ~~parameters~~ <u>data rates</u> ~~in dependence~~ <u>depending</u> on a number of successful transmissions, the number of successful transmissions being compared in the transmitting node against one of a first value corresponding to a first state of the transmitting node and a second value corresponding to a second state of the transmitting node, the step of adapting comprising in the transmitting node the steps of:

~~adapting a variable data rate to the current link quality and supporting multiple transmission rates;~~

<u>operating in a first state in response to detecting a successful transmission of three or more but less than ten transmissions;</u>

<u>operating in a second state in response to detecting a successful transmission of ten or more transmissions;</u>

~~counting the number of successful transmissions;~~

~~selecting and switching to the~~ <u>an</u> ~~adapted transmission parameter by switching to a different data rate allowing adaptation of the variable data rate to~~ <u>the current link quality</u> ~~present channel conditions;~~

~~in response to the number of successful transmissions equaling or exceeding the first value when the transmitting node is in the first state and~~

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~~in response to the number of successful transmissions equaling or exceeding the second value when the transmitting node is in the second state; and~~

~~in dependence of the success or failure of a subsequent transmission, operating the transmitting node in one of the first state and the second state,~~

~~wherein the step of operating the transmitting node in the second state further comprises in the event of a faulty transmission transitioning to the first state, and further comprising: setting the first value to 3 and the second value to 10;~~

<u>detecting</u> ~~counting a number of faulty transmissions~~ ~~one~~ <u>a</u> faulty <u>transmission</u> and selecting ~~the~~ <u>a</u> ~~adapted~~ <u>lower</u> transmission <u>data</u> <u>rate</u> ~~parameter~~ <u>in response to the detection of one or more</u> ~~dependence of a threshold of the number of~~ faulty transmissions;

~~setting the threshold or the number of faulty transmissions to 1; and~~

selecting ~~the~~ <u>an adapted data</u> transmission ~~parameter~~ <u>rate</u> ~~used by a responding receiver~~ <u>by selecting a new packet length different from an original packet length being used.</u> [[;]]

~~wherein the step of selecting the adapted transmission parameter further comprises selecting a different data rate, and~~

~~wherein the step of selecting the adapted transmission parameter further comprises selecting a new packet length different from an original packet length being used.~~

2. - 20. (Canceled)

21 (New) A computer readable storage medium comprising a set of instructions that when executed by a processor cause the computer to perform a method comprising the steps of:

operating in a first state in response to detecting a successful transmission of three or more but less than ten transmissions;

operating in a second state in response to detecting a successful transmission of ten or more transmissions; and

switching to a state of lower data transmission rate in response to detecting one or more defective transmissions by a transmitting node in the network;

wherein the transmission data rate is changed by selecting a new packet length different from an original packet length being used.

22. (New) A data communication network comprising:

a first node comprising a transmitter comprising a variable data transmission rate;

a second node comprising a receiver; and

a link connecting the first and second nodes;

wherein the first node:

operates in a first state in response to detecting a successful transmission of three or more but less than ten transmissions;

operates in a second state in response to detecting a successful transmission of ten or more transmissions; and

switches to a state of a lower data transmission rate in response to detecting one or more defective transmissions by a transmitting node in the network;

wherein the data transmission rate is changed by selecting a new packet length different from an original packet length being used.